

Marquette, 10 to 11.45 p. m. The following were local displays of more or less brilliancy: Eastport, 29th, 8 p. m. to midnight; 16th, 9.30 p. m. Burlington, Vt., 16th, 7 to 11.30 p. m.; 25th, 11 p. m. to 1.30 a. m. of 26th. Boston, 30th, 11 p. m. Ithaca, N. Y., 30th, 9.30 p. m. Morgantown, 15th, 1 a. m. Bellefontaine, Ohio, 10th, 7.25 p. m. to 4 a. m. of the 11th. Alpena, 15th, 8.35 p. m. to 2 a. m. of the 26th. Fort Brady, Mich., 25th, 9 p. m. Northport, Mich., 25th, 10.20 p. m. until midnight. St. Vincent, Minn., 21st, from dusk to 9.40 p. m.; 24th, 9 p. m. Yankton, 15th, 8.30 to 9 p. m. Clear Creek, Nebr., 17th and 18th.

OPTICAL PHENOMENA.

Mirage—Swanwick, Ill., 12th, visible nearly one hour. Northport, Mich., 1st, showing Torch Lake and its surroundings, situated in Antrim county, 14 miles to the eastward; the shore of Lake Michigan, two miles to the west and Beaver Islands and the highlands of Emmet county were distinctly visible. Umatilla, Or., 11th, the river, at a point about half mile below station, appeared elevated about 10 feet, apparently forming a water-fall. Indianola, 2nd, 15th, 16th, 19th and 23d. Manasquan, N. J., 6th, 1.50 p. m., ships were seen distinctly reflected upon the clouds along the New Jersey coast.

Lunar halos have been observed in the various districts on the following dates: New England, 7th; Middle Atlantic states, 2nd to 5th, 8th, 9th; South Atlantic states, 4th, 8th to 14th; Florida Peninsula, 1st, 4th, 5th, 8th, 11th; Eastern Gulf states, 10th, 13th; Western Gulf states, 2nd to 7th, 10th; Rio Grande valley, 7th; Ohio valley and Tennessee, 1st, 2nd, 3rd, 5th, 7th, 9th, 10th, 12th, 13th, 14th; Lower Lake region, 6th, 8th, 15th; Upper Lake region, 5th, 6th, 10th, 13th, 14th, 29th; Upper Mississippi valley, 2nd, 5th, 7th, 8th, 29th; Missouri valley, 1st, 30th; Northern Slope, 2nd, 3rd, 10th; Middle Slope, 30th; Northern Plateau, 7th; Southern Plateau, 28th.

Solar halos have been observed in the various districts on the following dates: New England, 19th; South Atlantic states, 9th, 19th; Ohio valley and Tennessee, 2nd, 3rd, 7th, 8th, 13th, 14th, 21st, 22nd; Lower Lake region, 1st, 4th, 6th, 14th, 22nd, 29th, 30th; Upper Lake region, 21st, 29th; extreme Northwest, 21st, 22nd; Upper Mississippi valley, 1st, 2nd, 8th, 13th, 14th, 21st, 22nd, 29th; Missouri valley, 16th; Middle Slope, 1st, 12th, 13th, 16th; Northern Slope, 17th; Northern Plateau, 3rd, 7th, 21st, 26th; Middle Plateau, 17th, 27th; North Pacific region, 1st, 3rd, 7th, 16th, 28th; Middle Pacific region, 27th, 28th.

MISCELLANEOUS PHENOMENA.

Prairie and Forest Fires.—*California*: San Francisco, 14th, 3 p. m., considerable smoke was observed in the northwest, and at 5.30 p. m., the greater part of the sky was obscured, followed by occasional showers of ashes; at sunset the sky had a livid appearance, which caused much alarm until telegraphic reports gave information of heavy forest fires in Marin county. San Diego, 8th, 9th, 10th, 11th and 12th, brush fires in mountains. *Canada*: Great fires raging in the vicinity of Kingston, Ottawa, Gravelhurst, Odessa and Bellville, Ontario, on the 3d. At Kingston, smoke very dense and business on the river almost at a standstill, boats being afraid to move. Gravelhurst, several farm-houses and large barns with their contents burned. North of Bracebridge fires exceedingly destructive; several persons burned to death. Heavy brush fires between Earnstown and Collins Bay, on the line of the Grand Trunk Railroad; a large quantity of hay and stacks burned, also a number of barns and dwellings. The whole section is dark with smoke, the sun being shut out from view by a density of this element never before experienced; loss in this vicinity estimated at \$80,000. Modoc Township, large amount of property destroyed, including dwellings, barns, crops, implements, fences, etc. The villages of Roslin and Sterling were burned up to on every side. Gravelhurst, Ontario, 16th, the Woodstock Lumber Company's mills and 3,000,000 feet of lumber burned; west end of the town on fire, one church and six houses destroyed. Buffalo, 16th, thirty-five miles south of city fires very extensive, destroying dwellings and barns; telegraphic communication interrupted; burning trees across the track seriously impeded travel. *Dakota*: Yankton, 19th and 20th. *Indian Territory*: Ft. Gibson, 7th, 14th, 20th, 22nd, 23rd, 24th. *Texas*: Grierson Springs, 2nd to 5th; Brackettville, 5th. *Kansas*: Council Grove, 17th, extensive fires west of station, 700 tons of hay burned. *Michigan*: Port Huron, 6th, extensive fires along the lake shore and in the interior of Huron and Sanilac counties; entire county from Forestville to Port Austin in flames and the inhabitants fleeing for their lives. The small town of Port Hope entirely destroyed and many people burned to death; throughout this section the loss of farm and town property is immense. It is reported that the forests, covering miles in width, were one vast sheet of flame which traveled rapidly southward, destroying everything in its path; fires more disastrous than the great conflagration of 1871; 7th, the towns of Vassar and Minden have suffered severely but more particularly the surrounding country. Sanilac Co., 10th, 215 families have been burned out in the towns of Marlette, Flynn, Argyle, Evergreen, Moore, Lalotte and Elmer, and 92 persons burned to death. In general, the forest fires of Michigan swept over that portion of the State lying between Saginaw Bay to the north and Lake St. Clair on the south, stretching along the coast of Lake Huron for about 100 miles, and extending inland over a breadth of from 20 to 60 miles. From 500 to 1,000